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ASSESSMENT REPORT

Report No.: 30751IDT.103

Rev. B

REPORT ON: RF EXPOSURE ASSESSMENT OF THE F3307 ERICSSON

MOBILE BROADBAND MODULE INSTALLED IN GENERIC HOST PLATFORMS COVERING 7 DIFFERENT COLLOCATION

SCENARIOS.

Product : Ericsson Mobile Broadband Module

Trade Mark : Ericsson Model : F3307

FCC ID / IC: : VV7-MBMF33071 / 287AG-MBMF33071

Manufacturer: Ericsson ABRequested by: Ericsson AB

Host Platform : Generic host platforms covering 7 different collocation

scenarios

Standard(s) : OET Bulletin 65 Edition 97-01 August 1997

FCC 47 CFR § 1.1307 FCC 47 CFR § 1.1310 RSS-102 Issue 4 - Marc 2010 EN 62311:2008 / 1999/519/EC

Radiocommunications (Electromagnetic Radiation -

Human Exposure) Standard 2003

ARPANSA RPS No. 3

AS 2772.2-1998:Radiofrequency radiation – Part 2

Vodafone requirements [1999/519/EC]

This test report includes 2 annexes and therefore, the total number of pages is 36.

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1. COMPETENCE AND GUARANTEES

AT4 wireless is a testing laboratory competent to carry out the evaluation described in this report.

AT4 wireless guarantees the reliability of the data presented in this report, which is based on the information available at AT4 wireless at the time of performance of the evaluation.

AT4 wireless is liable to the client for the maintenance of the confidentiality of all information related to the item under review and the results of such evaluation

2. GENERAL CONDITIONS

- 1. This report refers only to the item that has undergone the evaluation as described in Annex A of this report according to the information provided by the applicant.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of AT4 wireless.
- 4. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of AT4 wireless and the Accreditation Bodies.

3. CHARACTERISTICS OF THE EVALUATION

3.1. SERVICES REQUESTED

RF exposure assessment of the F3307 Ericsson Mobile Broadband Module installed in generic host platforms covering 7 different collocation scenarios according to:

Requirements	Frequency bands
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields	
FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared. FCC 47 CFR § 1.1310 - Radiofrequency radiation	GSM 850, FDD V, PCS 1900, FDD II
exposure limits. RSS-102 Issue 4 - March 2010	
EN 62311:2008 - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) 1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	E-GSM 900, DCS 1800

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Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003 ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)	FDD V, E-GSM 900, DCS 1800
AS 2772.2-1998: Radiofrequency radiation - Part 2: Principles and methods of measurement - 300 kHz to 100 GHz	
Vodafone requirements [1999/519/EC]	GSM 850, FDD V, E-GSM 900, DCS 1800, PCS 1900, FDD II

3.2. REQUIREMENTS AND METHOD

The evaluation has been carried out according to the following documents and standards:

Requirements	Frequency bands
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields	
FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.	GSM 850, FDD V, PCS 1900, FDD II
FCC 47 CFR § 1.1310 - Radiofrequency radiation exposure limits.	
RSS-102 Issue 4 - March 2010	
EN 62311:2008 - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) 1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	E-GSM 900, DCS 1800
Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003	
ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)	FDD V, E-GSM 900, DCS 1800
AS 2772.2-1998: Radiofrequency radiation - Part 2: Principles and methods of measurement - 300 kHz to 100 GHz	
Vodafone requirements [1999/519/EC]	GSM 850, FDD V, E-GSM 900, DCS 1800, PCS 1900, FDD II

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4. IDENTIFICATION DATA SUPPLIED BY THE APPLICANT

Identification data included in this section has been supplied by the client.

4.1. APPLICANT

Name / Company: Ericsson AB

V.A.T. Registration number: SE 556056625801 Address: Lindholmspiren 11, SE-417 56 Goteborg

Country: Sweden

4.2. REPRESENTATIVE

Name: Jonas Rinman

Address: Lindholmspiren 11, SE-417 56 Goteborg

Country: Sweden

4.3. IDENTIFICATION OF ITEM/ITEMS EVALUATED

Product: Ericsson Mobile Broadband Module

Trade mark: Ericsson Model: F3307

Manufacturer: Ericsson AB

Country of manufacture: China

Host platform: Generic host platforms covering 7 different collocation scenarios **Description:** 2G (GSM/GPRS/EDGE Class 10: 850/900/1800/1900 MHz) and 3G

(HSDPA/HSUPA/WCDMA Release 6: FDD II, FDD V) module installed in generic

host platforms covering 7 different collocation scenarios.

5. EVALUATION RESULTS

Abbreviations used in the VERDICT column of the following tables are:

C Compliant with requirements

NC Not Compliant with requirements

NA Not Applicable

NE Not Evaluated

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5.1. RESULTS FOR ITEM EVALUATED TRANSMITTING ALONE

DOCUMENT/STANDARD	VERDICT			
DOCUMENT/STANDARD		C	NC	NE
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields				
FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.		C		
FCC 47 CFR § 1.1310 - Radiofrequency radiation exposure limits.				
RSS-102 Issue 4 - March 2010				
EN 62311:2008 - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)		C		
1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)		C		
Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003				
ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)		C		
AS 2772.2-1998: Radiofrequency radiation - Part 2: Principles and methods of measurement - 300 kHz to 100 GHz				
Vodafone requirements [1999/519/EC]		С		

5.2. RESULTS FOR ITEM EVALUATED TRANSMITTING SIMULTANEOUSLY WITH OTHER COLLOCATED TRANSMITTERS

DOCUMENT/STANDARD -		VERDICT		
DOCUMEN 1/STANDARD	NA	C	NC	NE
OET Bulletin 65 Edition 97-01 August 1997 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields				
FCC 47 CFR § 1.1307 - Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.		C		
FCC 47 CFR § 1.1310 - Radiofrequency radiation exposure limits.				
RSS-102 Issue 4 - March 2010				
EN 62311:2008 - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)		C		
1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)		C		

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Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003	
ARPANSA RPS No. 3 – Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)	С
AS 2772.2-1998: Radiofrequency radiation - Part 2: Principles and methods of measurement - 300 kHz to 100 GHz	
Vodafone requirements [1999/519/EC]	С

6. REMARKS AND COMMENTS

GSM and GPRS modes have been evaluated together because both modes share the same power class and modulation scheme in the uplink.

WCDMA and HSDPA modes have been evaluated together because HSDPA is an improved mode of operation only for Downlink (equipment reception), but using the normal WCDMA mode for the Uplink (equipment transmission).

The equipment is also commercialised under other FCC ID with the following structure:

FCC ID: VV7-MBMF33071-X

Where X is a letter identifying variants of the product.

Providing the changes in these variants do not affect to certified parameters, this report will be also applicable to them.

7. SUMMARY

Considering the results of the performed analysis and evaluation, stated in annexes A and B, the item under evaluation is **IN COMPLIANCE** with the specifications listed in section 3.1 "SERVICES REQUESTED".

NOTE: The results presented in this report apply only to the particular item under evaluation established in section "4.3. IDENTIFICATION OF ITEM/ITEMS EVALUATED" of this document, as presented for evaluation by the applicant.

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ANNEX A

HOST PLATFORMS ANALYSIS

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A.1. SCENARIO 1

Scenario 1 covers a host device where the F3307 Ericsson Mobile Broadband Module is in mobile exposure conditions (antenna-to-user distance > 20 cm) and it is collocated with a Bluetooth transmitter (F3307 antenna-to-Bluetooth antenna distance < 20 cm) which is also in mobile exposure conditions. Other transmitters may be installed in the same host platform but they are not collocated with F3307 Ericsson Mobile Broadband Module.

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3307

FCC ID / IC : VV7-MBMF33071 / 287AG-MBMF33071 Maximum antenna gain : Low bands: 2.70 dBi // High bands: 2.90 dBi

Output power : See table below

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
GSM 850	GSM/GPRS	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
GSIM 630	EDGE	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
FDD V	WCDMA/HSDPA	826,4 - 846,6	28,16	654,64	100%	654,64	2,70	1,86	1218,99
FDD V	HSUPA	826,4 - 846,6	27,98	628,06	100%	628,06	2,70	1,86	1169,50
E-GSM 900	GSM/GPRS	880,2 - 914,8	32,60	1819,70	25%	454,93	2,70	1,86	847,11
E-GSWI 900	EDGE	880,2 - 914,8	27,90	616,60	25%	154,15	2,70	1,86	287,04
DCS 1800	GSM/GPRS	1710,2 - 1784,8	29,80	954,99	25%	238,75	2,90	1,95	465,52
DCS 1800	EDGE	1710,2 - 1784,8	27,10	512,86	25%	128,22	2,90	1,95	250,00
PCS 1900	GSM/GPRS	1850,2 - 1909,8	30,11	1025,65	25%	256,41	2,90	1,95	499,97
	EDGE	1850,2 - 1909,8	30,09	1020,94	25%	255,23	2,90	1,95	497,67
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	28,10	645,65	100%	645,65	2,90	1,95	1258,93
וו טטז	HSUPA	1852,4 - 1907,6	28,30	676,08	100%	676,08	2,90	1,95	1318,26

ADDITIONAL/SECONDARY TRANSMITTERS:

Bluetooth transmitter:

Type of equipment : Bluetooth ¹

Trade mark : Any Model : Any FCC ID / IC : Any

Output power : See table below

Scenario 1						
Type of transmitter	Maximum EIRP (mW)	Duty Cycle	EIRP (mW)			
Bluetooth	100	76%	76,43			

¹ It could be also Bluetooth + UWB transmitter)
UWB contribution does not need to be considered.

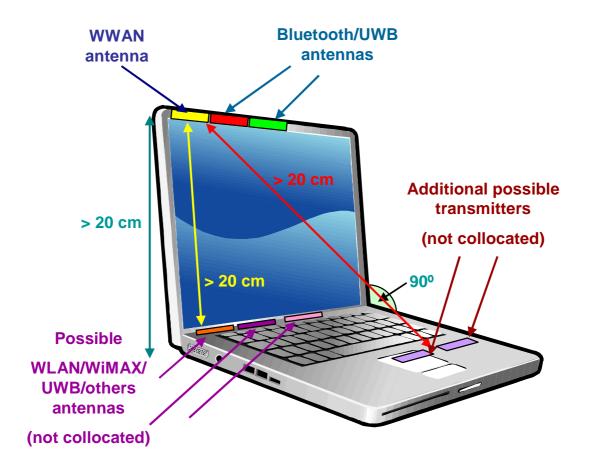
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WORST CASE CONSIDERATIONS:

- Antenna-to-user distance: 20 cm.
 - Any antenna-to-user distance > 20 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- F3307 antenna gains: Low bands: 2.70 dBi // High bands: 2.90 dBi
 - o Any antenna gains below the specified would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Bluetooth EIRP: 100 mW
 - Any Bluetooth (or Bluetooth + UWB) transmitter with EIRP below 100 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Antenna-to-antenna distances: 0 cm
 - Any antenna-to-antenna distance > 0 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.

SAMPLE CONFIGURATION:



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A.2. SCENARIO 2

Scenario 2 covers a host device where the F3307 Ericsson Mobile Broadband Module is in mobile exposure conditions (antenna-to-user distance > 20 cm) and it is collocated with a WLAN transmitter (F3307 antenna-to-WLAN antenna distance < 20 cm) which is also in mobile exposure conditions.

WLAN transmitter may have other antennas in portable exposure conditions but they are not collocated with F3307 Ericsson Mobile Broadband Module antenna.

Other transmitters may be installed in the same host platform but they are not collocated with F3307 Ericsson Mobile Broadband Module.

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3307

FCC ID / IC : VV7-MBMF33071 / 287AG-MBMF33071 Maximum antenna gain : Low bands: 2.70 dBi // High bands: 2.90 dBi

Output power : See table below

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
GSM 850	GSM/GPRS	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
GSIVI 650	EDGE	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
FDD V	WCDMA/HSDPA	826,4 - 846,6	28,16	654,64	100%	654,64	2,70	1,86	1218,99
rud v	HSUPA	826,4 - 846,6	27,98	628,06	100%	628,06	2,70	1,86	1169,50
E-GSM 900	GSM/GPRS	880,2 - 914,8	32,60	1819,70	25%	454,93	2,70	1,86	847,11
E-GSM 900	EDGE	880,2 - 914,8	27,90	616,60	25%	154,15	2,70	1,86	287,04
DCS 1800	GSM/GPRS	1710,2 - 1784,8	29,80	954,99	25%	238,75	2,90	1,95	465,52
DC3 1800	EDGE	1710,2 - 1784,8	27,10	512,86	25%	128,22	2,90	1,95	250,00
PCS 1900	GSM/GPRS	1850,2 - 1909,8	30,11	1025,65	25%	256,41	2,90	1,95	499,97
PCS 1900	EDGE	1850,2 - 1909,8	30,09	1020,94	25%	255,23	2,90	1,95	497,67
EDD II	WCDMA/HSDPA	1852,4 - 1907,6	28,10	645,65	100%	645,65	2,90	1,95	1258,93
FDD II	HSUPA	1852,4 - 1907,6	28,30	676,08	100%	676,08	2,90	1,95	1318,26

ADDITIONAL/SECONDARY TRANSMITTERS:

WLAN transmitter:

Type of equipment : WLAN²
Trade mark : Any
Model : Any
FCC ID / IC : Any

Output power : See table below

Scenario 3						
Type of transmitter	Maximum EIRP (mW)	Duty Cycle	EIRP (mW)			
WLAN	2000	100%	2000,00			

² It could be also WLAN/WiMAX combo transmitter where WLAN and WiMAX transmitters do not transmit simultaneously.

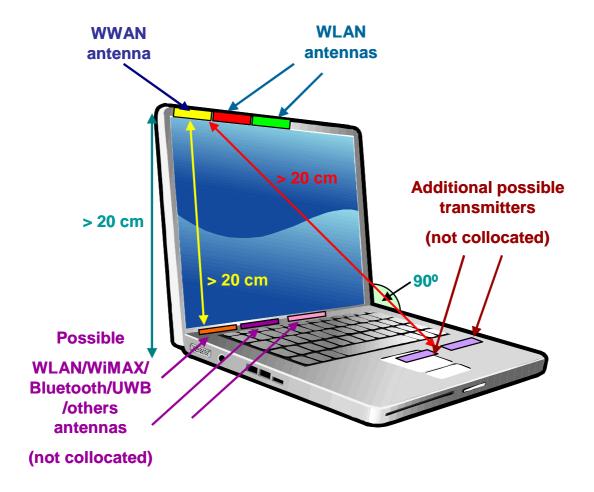
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WORST CASE CONSIDERATIONS:

- Antenna-to-user distance: 20 cm.
 - Any antenna-to-user distance > 20 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- F3307 antenna gains: Low bands: 2.70 dBi // High bands: 2.90 dBi
 - o Any antenna gains below the specified would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- WLAN EIRP: 2000 mW
 - o Any WLAN transmitter with EIRP below 2000 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Antenna-to-antenna distances: 0 cm
 - Any antenna-to-antenna distance > 0 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.

SAMPLE CONFIGURATION:



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A.3. SCENARIO 3

Scenario 3 covers a host device where the F3307 Ericsson Mobile Broadband Module is in mobile exposure conditions (antenna-to-user distance > 20 cm) and it is collocated with a WLAN transmitter and a Bluetooth transmitter (F3307 antenna-to-WLAN/Bluetooth antenna distance < 20 cm) which are also in mobile exposure conditions.

WLAN transmitter may have other antennas in portable exposure conditions but they are not collocated with F3307 Ericsson Mobile Broadband Module antenna.

Other transmitters may be installed in the same host platform but they are not collocated with F3307 Ericsson Mobile Broadband Module.

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3307

FCC ID / IC : VV7-MBMF33071 / 287AG-MBMF33071 Maximum antenna gain : Low bands: 2.70 dBi // High bands: 2.90 dBi

Output power : See table below

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
GSM 850	GSM/GPRS	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
GSWI 650	EDGE	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
FDD V	WCDMA/HSDPA	826,4 - 846,6	28,16	654,64	100%	654,64	2,70	1,86	1218,99
TDD V	HSUPA	826,4 - 846,6	27,98	628,06	100%	628,06	2,70	1,86	1169,50
E-GSM 900	GSM/GPRS	880,2 - 914,8	32,60	1819,70	25%	454,93	2,70	1,86	847,11
E-G3W 900	EDGE	880,2 - 914,8	27,90	616,60	25%	154,15	2,70	1,86	287,04
DCS 1800	GSM/GPRS	1710,2 - 1784,8	29,80	954,99	25%	238,75	2,90	1,95	465,52
DCS 1800	EDGE	1710,2 - 1784,8	27,10	512,86	25%	128,22	2,90	1,95	250,00
PCS 1900	GSM/GPRS	1850,2 - 1909,8	30,11	1025,65	25%	256,41	2,90	1,95	499,97
	EDGE	1850,2 - 1909,8	30,09	1020,94	25%	255,23	2,90	1,95	497,67
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	28,10	645,65	100%	645,65	2,90	1,95	1258,93
LDD II	HSUPA	1852,4 - 1907,6	28,30	676,08	100%	676,08	2,90	1,95	1318,26

ADDITIONAL/SECONDARY TRANSMITTERS:

WLAN transmitter:

Type of equipment : WLAN³
Trade mark : Any
Model : Any
FCC ID / IC : Any

Output power : See table below

Scenario 3						
Type of transmitter Maximum EIRP (mW) Duty Cycle EIRP (mW)						
WLAN	2000	100%	2000,00			

³ It could be also WLAN/WiMAX combo transmitter where WLAN and WiMAX transmitters do not transmit simultaneously.

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Bluetooth transmitter:

Type of equipment : Bluetooth ⁴

Trade mark : Any Model : Any FCC ID / IC : Any

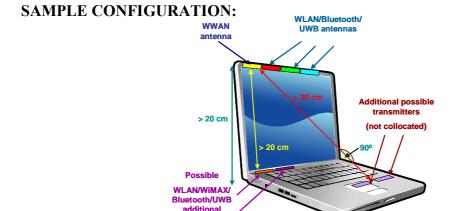
Output power : See table below

Scenario 3						
Type of transmitter Maximum EIRP (mW) Duty Cycle EIRP (mW)						
Bluetooth	100	76%	76,43			

⁴ It could be also Bluetooth + UWB transmitter)
UWB contribution does not need to be considered.

WORST CASE CONSIDERATIONS:

- Antenna-to-user distance: 20 cm.
 - Any antenna-to-user distance > 20 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- F3307 antenna gains: Low bands: 2.70 dBi // High bands: 2.90 dBi
 - o Any antenna gains below the specified would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- WLAN EIRP: 2000 mW
 - o Any WLAN transmitter with EIRP below 2000 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Bluetooth EIRP: 100 mW
 - O Any Bluetooth (or Bluetooth + UWB) transmitter with EIRP below 100 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Antenna-to-antenna distances: 0 cm
 - O Any antenna-to-antenna distance > 0 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.



(not collocated)

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A.4. SCENARIO 4

Scenario 4 covers a host device where the F3307 Ericsson Mobile Broadband Module is in mobile exposure conditions (antenna-to-user distance > 20 cm) and it is collocated with a WiMAX transmitter (F3307 antenna-to-WiMAX antenna distance < 20 cm) which is also in mobile exposure conditions.

WiMAX transmitter may have other antennas in portable exposure conditions but they are not collocated with F3307 Ericsson Mobile Broadband Module antenna.

Other transmitters may be installed in the same host platform but they are not collocated with F3307 Ericsson Mobile Broadband Module.

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3307

FCC ID / IC : VV7-MBMF33071 / 287AG-MBMF33071 Maximum antenna gain : Low bands: 2.70 dBi // High bands: 2.90 dBi

Output power : See table below

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
GSM 850	GSM/GPRS	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
GSIVI 650	EDGE	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
FDD V	WCDMA/HSDPA	826,4 - 846,6	28,16	654,64	100%	654,64	2,70	1,86	1218,99
rdd v	HSUPA	826,4 - 846,6	27,98	628,06	100%	628,06	2,70	1,86	1169,50
E-GSM 900	GSM/GPRS	880,2 - 914,8	32,60	1819,70	25%	454,93	2,70	1,86	847,11
E-GSWI 900	EDGE	880,2 - 914,8	27,90	616,60	25%	154,15	2,70	1,86	287,04
DCS 1800	GSM/GPRS	1710,2 - 1784,8	29,80	954,99	25%	238,75	2,90	1,95	465,52
DCS 1800	EDGE	1710,2 - 1784,8	27,10	512,86	25%	128,22	2,90	1,95	250,00
PCS 1900	GSM/GPRS	1850,2 - 1909,8	30,11	1025,65	25%	256,41	2,90	1,95	499,97
	EDGE	1850,2 - 1909,8	30,09	1020,94	25%	255,23	2,90	1,95	497,67
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	28,10	645,65	100%	645,65	2,90	1,95	1258,93
	HSUPA	1852,4 - 1907,6	28,30	676,08	100%	676,08	2,90	1,95	1318,26

ADDITIONAL/SECONDARY TRANSMITTERS:

WiMAX transmitter:

Type of equipment : WiMAX⁵
Trade mark : Any
Model : Any
FCC ID / IC : Any

Output power : See table below

Scenario 4					
Type of transmitter Maximum EIRP (mW) Duty Cycle EIRP (mW)					
WiMAX	2000	100%	2000,00		

⁵ It could be also WLAN/WiMAX combo transmitter where WLAN and WiMAX transmitters do not transmit simultaneously.

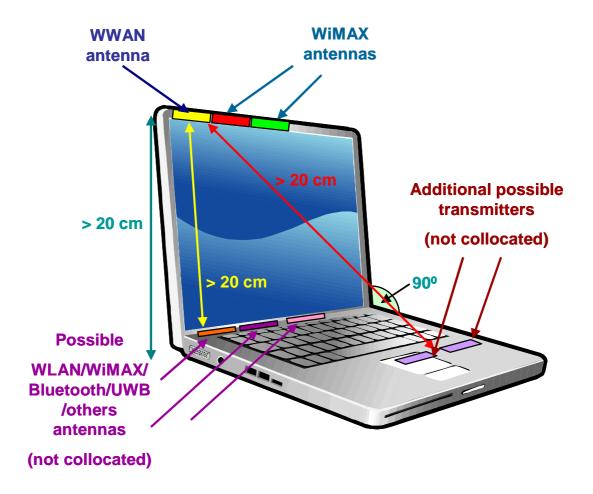
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WORST CASE CONSIDERATIONS:

- Antenna-to-user distance: 20 cm.
 - Any antenna-to-user distance > 20 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- F3307 antenna gains: Low bands: 2.70 dBi // High bands: 2.90 dBi
 - o Any antenna gains below the specified would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- WiMAX EIRP: 2000 mW
 - o Any WiMAX transmitter with EIRP below 2000 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Antenna-to-antenna distances: 0 cm
 - Any antenna-to-antenna distance > 0 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.

SAMPLE CONFIGURATION:



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A.5. SCENARIO 5

Scenario 5 covers a host device where the F3307 Ericsson Mobile Broadband Module is in mobile exposure conditions (antenna-to-user distance > 20 cm) and it is collocated with a WiMAX transmitter and a Bluetooth transmitter (F3307 antenna-to-WiMAX/Bluetooth antenna distance < 20 cm) which are also in mobile exposure conditions.

WiMAX transmitter may have other antennas in portable exposure conditions but they are not collocated with F3307 Ericsson Mobile Broadband Module antenna.

Other transmitters may be installed in the same host platform but they are not collocated with F3307 Ericsson Mobile Broadband Module.

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3307

FCC ID / IC : VV7-MBMF33071 / 287AG-MBMF33071 Maximum antenna gain : Low bands: 2.70 dBi // High bands: 2.90 dBi

Output power : See table below

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	
GSM 850	GSM/GPRS	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
GSIVI 830	EDGE	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
FDD V	WCDMA/HSDPA	826,4 - 846,6	28,16	654,64	100%	654,64	2,70	1,86	1218,99
LDD A	HSUPA	826,4 - 846,6	27,98	628,06	100%	628,06	2,70	1,86	1169,50
E-GSM 900	GSM/GPRS	880,2 - 914,8	32,60	1819,70	25%	454,93	2,70	1,86	847,11
E-G3W 900	EDGE	880,2 - 914,8	27,90	616,60	25%	154,15	2,70	1,86	287,04
DCS 1800	GSM/GPRS	1710,2 - 1784,8	29,80	954,99	25%	238,75	2,90	1,95	465,52
DCS 1800	EDGE	1710,2 - 1784,8	27,10	512,86	25%	128,22	2,90	1,95	250,00
PCS 1900	GSM/GPRS	1850,2 - 1909,8	30,11	1025,65	25%	256,41	2,90	1,95	499,97
	EDGE	1850,2 - 1909,8	30,09	1020,94	25%	255,23	2,90	1,95	497,67
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	28,10	645,65	100%	645,65	2,90	1,95	1258,93
LDD II	HSUPA	1852,4 - 1907,6	28,30	676,08	100%	676,08	2,90	1,95	1318,26

ADDITIONAL/SECONDARY TRANSMITTERS:

WiMAX transmitter:

Type of equipment : WiMAX ⁶
Trade mark : Any
Model : Any
FCC ID / IC : Any

Output power : See table below

Scenario 5						
Type of transmitter	Maximum EIRP (mW)	Duty Cycle	EIRP (mW)			
WiMAX	2000	100%	2000,00			

⁶ It could be also WLAN/WiMAX combo transmitter where WLAN and WiMAX transmitters do not transmit simultaneously.

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Bluetooth transmitter:

Type of equipment : Bluetooth ⁷

Trade mark : Any Model : Any

FCC ID / IC : Any
Output power : See table below

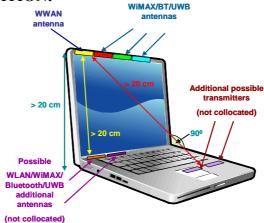
Scenario 5					
Type of transmitter Maximum EIRP (mW) Duty Cycle EIRP (mW)					
Bluetooth	100	76%	76,43		

⁷ It could be also Bluetooth + UWB transmitter)
UWB contribution does not need to be considered.

WORST CASE CONSIDERATIONS:

- Antenna-to-user distance: 20 cm.
 - Any antenna-to-user distance > 20 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- F3307 antenna gains: Low bands: 2.70 dBi // High bands: 2.90 dBi
 - o Any antenna gains below the specified would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- WiMAX EIRP: 2000 mW
 - o Any WiMAX transmitter with EIRP below 2000 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Bluetooth EIRP: 100 mW
 - Any Bluetooth (or Bluetooth + UWB) transmitter with EIRP below 100 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Antenna-to-antenna distances: 0 cm
 - O Any antenna-to-antenna distance > 0 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.

SAMPLE CONFIGURATION:



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A.6. SCENARIO 6

Scenario 6 covers a host device where the F3307 Ericsson Mobile Broadband Module is in mobile exposure conditions (antenna-to-user distance > 20 cm) and it is collocated with a WLAN transmitter and a WiMAX transmitter (F3307 antenna-to-WLAN/WiMAX antenna distance < 20 cm) which are also in mobile exposure conditions.

WLAN/WiMAX transmitters may have other antennas in portable exposure conditions but they are not collocated with F3307 Ericsson Mobile Broadband Module antenna.

Other transmitters may be installed in the same host platform but they are not collocated with F3307 Ericsson Mobile Broadband Module.

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3307

FCC ID / IC : VV7-MBMF33071 / 287AG-MBMF33071 Maximum antenna gain : Low bands: 2.70 dBi // High bands: 2.90 dBi

Output power : See table below

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
GSM 850	GSM/GPRS	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
GSIVI 650	EDGE	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
FDD V	WCDMA/HSDPA	826,4 - 846,6	28,16	654,64	100%	654,64	2,70	1,86	1218,99
TDD V	HSUPA	826,4 - 846,6	27,98	628,06	100%	628,06	2,70	1,86	1169,50
E-GSM 900	GSM/GPRS	880,2 - 914,8	32,60	1819,70	25%	454,93	2,70	1,86	847,11
E-GSW 900	EDGE	880,2 - 914,8	27,90	616,60	25%	154,15	2,70	1,86	287,04
DCS 1800	GSM/GPRS	1710,2 - 1784,8	29,80	954,99	25%	238,75	2,90	1,95	465,52
DCS 1800	EDGE	1710,2 - 1784,8	27,10	512,86	25%	128,22	2,90	1,95	250,00
PCS 1900	GSM/GPRS	1850,2 - 1909,8	30,11	1025,65	25%	256,41	2,90	1,95	499,97
	EDGE	1850,2 - 1909,8	30,09	1020,94	25%	255,23	2,90	1,95	497,67
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	28,10	645,65	100%	645,65	2,90	1,95	1258,93
I DD II	HSUPA	1852,4 - 1907,6	28,30	676,08	100%	676,08	2,90	1,95	1318,26

ADDITIONAL/SECONDARY TRANSMITTERS:

WLAN/WiMAX transmitter:

Type of equipment : WLAN / WiMAX

Trade mark : Any Model : Any FCC ID / IC : Any

Output power : See table below

Scenario 6					
Type of transmitter	Maximum EIRP (mW)	Duty Cycle	EIRP (mW)		
WLAN / WiMAX	2000 8	100%	2000,00		

⁸ Aggregated EIRP of WLAN and WiMAX transmitters

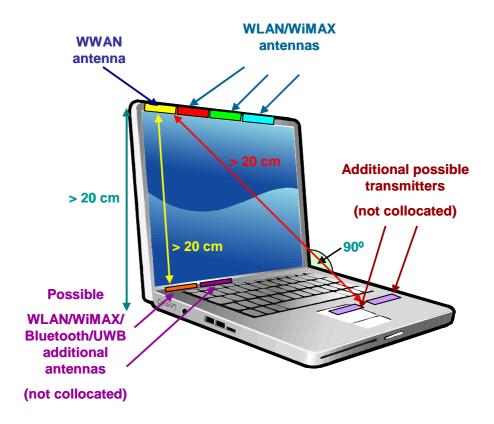
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WORST CASE CONSIDERATIONS:

- Antenna-to-user distance: 20 cm.
 - Any antenna-to-user distance > 20 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- F3307 antenna gains: Low bands: 2.70 dBi // High bands: 2.90 dBi
 - o Any antenna gains below the specified would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- WLAN EIRP + WiMAX EIRP: 2000 mW
 - Any WLAN transmitter and WiMAX transmitters with aggregated EIRP below 2000 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Antenna-to-antenna distances: 0 cm
 - Any antenna-to-antenna distance > 0 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.

SAMPLE CONFIGURATION:



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A.7. SCENARIO 7

Scenario 6 covers a host device where the F3307 Ericsson Mobile Broadband Module is in mobile exposure conditions (antenna-to-user distance > 20 cm) and it is collocated with a WLAN transmitter a WiMAX transmitter and a Bluetooth transmitter (F3307 antenna-to-WLAN/WiMAX/Bluetooth antenna distance < 20 cm) which are also in mobile exposure conditions.

WLAN/WiMAX transmitters may have other antennas in portable exposure conditions but they are not collocated with F3307 Ericsson Mobile Broadband Module antenna.

Other transmitters may be installed in the same host platform but they are not collocated with F3307 Ericsson Mobile Broadband Module.

MAIN/PRIMARY TRANSMITTER:

WWAN transmitter:

Type of equipment : Ericsson Mobile Broadband Module

Trade mark : Ericsson Model : F3307

FCC ID / IC : VV7-MBMF33071 / 287AG-MBMF33071 Maximum antenna gain : Low bands: 2.70 dBi // High bands: 2.90 dBi

Output power : See table below

Frequency Band	Mode	Frequency range (MHz)	Maximum conducted output power (dBm)	Maximum conducted output power (mW)	Duty Cycle	Equivalent conducted output power (mW)	Maximum antenna gain (dBi)	Maximum antenna gain (numerical)	EIRP (mW)
GSM 850	GSM/GPRS	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
GSIVI 650	EDGE	824,2 - 848,8	33,51	2243,88	25%	560,97	2,70	1,86	1044,58
FDD V	WCDMA/HSDPA	826,4 - 846,6	28,16	654,64	100%	654,64	2,70	1,86	1218,99
FDD V	HSUPA	826,4 - 846,6	27,98	628,06	100%	628,06	2,70	1,86	1169,50
E-GSM 900	GSM/GPRS	880,2 - 914,8	32,60	1819,70	25%	454,93	2,70	1,86	847,11
E-G3W 900	EDGE	880,2 - 914,8	27,90	616,60	25%	154,15	2,70	1,86	287,04
DCS 1800	GSM/GPRS	1710,2 - 1784,8	29,80	954,99	25%	238,75	2,90	1,95	465,52
DCS 1800	EDGE	1710,2 - 1784,8	27,10	512,86	25%	128,22	2,90	1,95	250,00
PCS 1900	GSM/GPRS	1850,2 - 1909,8	30,11	1025,65	25%	256,41	2,90	1,95	499,97
	EDGE	1850,2 - 1909,8	30,09	1020,94	25%	255,23	2,90	1,95	497,67
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	28,10	645,65	100%	645,65	2,90	1,95	1258,93
LDD II	HSUPA	1852,4 - 1907,6	28,30	676,08	100%	676,08	2,90	1,95	1318,26

ADDITIONAL/SECONDARY TRANSMITTERS:

WLAN/WiMAX transmitter:

Type of equipment : WLAN / WiMAX

Trade mark : Any Model : Any FCC ID / IC : Any

Output power : See table below

Scenario 6					
Type of transmitter	Maximum EIRP (mW)	Duty Cycle	EIRP (mW)		
WLAN / WiMAX	2000 9	100%	2000,00		

⁹ Aggregated EIRP of WLAN and WiMAX transmitters

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Bluetooth transmitter:

Type of equipment : Bluetooth ¹⁰

Trade mark : Any Model : Any FCC ID / IC : Any

Output power : See table below

Scenario 5					
Type of transmitter	Maximum EIRP (mW)	Duty Cycle	EIRP (mW)		
Bluetooth	100	76%	76,43		

¹⁰ It could be also Bluetooth + UWB transmitter) UWB contribution does not need to be considered.

WORST CASE CONSIDERATIONS:

- Antenna-to-user distance: 20 cm.
 - Any antenna-to-user distance > 20 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- F3307 antenna gains: Low bands: 2.70 dBi // High bands: 2.90 dBi
 - o Any antenna gains below the specified would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- WLAN EIRP + WiMAX EIRP: 2000 mW
 - Any WLAN transmitter and WiMAX transmitters with aggregated EIRP below 2000 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Bluetooth EIRP: 100 mW

SAMPLE CONFIGURATION:

- Any Bluetooth (or Bluetooth + UWB) transmitter with EIRP below 100 mW would be covered by the analysis included in this report as far as it would provide better exposure conditions.
- Antenna-to-antenna distances: 0 cm
 - Any antenna-to-antenna distance > 0 cm would be covered by the analysis included in this report as far as it would provide better exposure conditions.



WLAN/WIMAX/
Bluetooth/UWB
antenna

Additional possible
transmitters
(not collocated)

Possible
WLAN/WIMAX/
Bluetooth/UWB
additional
antennas
(not collocated)

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ANNEX B

RF EXPOSURE ASSESSMENT

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B.1. MAXIMUM PERMISSIBLE EXPOSURE (MPE) LIMITS

B.1.1. FCC/IC LIMITS

Normative documents:

- OET Bulletin 65 Edition 97-01 August 1997 Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
- FCC 47 CFR § 1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
- FCC 47 CFR § 1.1310 Radiofrequency radiation exposure limits.1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)
- RSS-102 Issue 4 March 2010

Reference levels:

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure:

Frequency Range (MHz)	Power density $(\frac{mW}{cm^2})$	Averaging time (minutes)
300 – 1500	$\frac{f(MHz)}{1500}$	30
1500 - 100.000	1.0	30

The table below is excerpted from item 4.2 of RSS-102 Issue 4, titled RF Field Strength Limits for Devices Used by the General Public:

Frequency Range (MHz)	Power density $(\frac{W}{m^2})$	Averaging time (minutes)
300 – 1500	f (MHz) /150	6
1500 - 100.000	10	6

MPE limits:

- Main/Primary transmitter (F3307 Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$MPE \ limit \\ (S_{eq}) \\ (\frac{mW}{cm^2})$
GSM 850	GSM/GPRS	824,2 - 848,8	824,20	0,5495
GSM 830	EDGE	824,2 - 848,8	824,20	0,5495
FDD V	WCDMA/HSDPA	826,4 - 846,6	826,40	0,5509
LDD A	HSUPA	826,4 - 846,6	826,40	0,5509
PCS 1900	GSM/GPRS	1850,2 - 1909,8	1850,20	1,0000
FCS 1900	EDGE	1850,2 - 1909,8	1850,20	1,0000
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	1852,40	1,0000
	HSUPA	1852,4 - 1907,6	1852,40	1,0000

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- Additional/Secondary transmitters: All the transmission frequencies for collocated transmitter modules are above 1.5 GHz, so that the MPE limit is 1 mW/cm².

B.1.2. EUROPEAN UNION MPE LIMITS

Normative document:

- EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz 300 GHz)
- 1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

Reference levels:

The table below is excerpted from Table 2 of 1999/519/EC, titled "Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)":

Frequency range	E-field strength $(\frac{V}{m})$	H-field strength $(\frac{A}{m})$	B-field (μT)	Equivalent plane wave power density S_{eq} $(\frac{W}{m^2})$
400 - 2000 MHz	$1{,}375 \cdot f(MHz)^{1/2}$	$0,0037 \cdot f(\mathit{MHz})^{1/2}$	$0,0046 \cdot f(MHz)^{1/2}$	$\frac{f(MHz)}{200}$
2 - 300 GHz	61	0,16	0,2	10

MPE limits:

- Main/Primary transmitter (F3307 Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$MPE \ limit (S_{eq}) (\frac{mW}{cm^2})$
E-GSM 900	GSM/GPRS	880,2 - 914,8	880,20	0,4401
	EDGE	880,2 - 914,8	880,20	0,4401
DCS 1800	GSM/GPRS	1710,2 - 1784,8	1710,20	0,8551
	EDGE	1710,2 - 1784,8	1710,20	0,8551

- Additional/Secondary transmitters: All the transmission frequencies for collocated transmitter modules are above 2 GHz, so that the MPE limit is 1 mW/cm².

B.1.3. AUSTRALIA MPE LIMITS

Normative documents:

- Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 2003
- ARPANSA RPS No. 3 Maximum Exposure Levels to Radiofrequency Fields (3 kHz to 300 GHz)

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- AS 2772.2-1998: Radiofrequency radiation - Part 2: Principles and methods of measurement - 300 kHz to 100 GHz

Reference levels:

The table below is excerpted from Table 7 of ARPANSA RPS No. 3, titled "Reference levels for time averaged exposure to RMS electric and magnetic fields (unperturbed rms values)":

Exposure category	Frequency range	E-field strength $(\frac{V}{m} \text{ rms})$	H-field strength $(\frac{A}{m} \text{ rms})$	Equivalent plane wave power density $\frac{S_{eq}}{\left(\frac{W}{m^2}\right)}$	Equivalent plane wave power density S_{eq} $(\frac{mW}{cm^2})$
General public	400 MHz - 2 GHz	$1{,}37\cdot f(MHz)^{1/2}$	$0,00364 \cdot f(MHz)^{1/2}$	$\frac{f(MHz)}{200}$	$\frac{f(MHz)}{2000}$
General public	2 - 300 GHz	61	0,16	10	1

MPE limits:

- Main/Primary transmitter (F3307 Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$MPE \ limit \\ (S_{eq}) \\ (\frac{mW}{cm^2})$
FDD V	WCDMA/HSDPA	826,4 - 846,6	826,40	0,4132
TDD V	HSUPA	826,4 - 846,6	826,40	0,4132
E-GSM 900	GSM/GPRS	880,2 - 914,8	880,20	0,4401
E-GSM 900	EDGE	880,2 - 914,8	880,20	0,4401
DCS 1800	GSM/GPRS	1710,2 - 1784,8	1710,20	0,8551
	EDGE	1710,2 - 1784,8	1710,20	0,8551

- Additional/Secondary transmitters: All the transmission frequencies for collocated transmitter modules are above 2 GHz, so that the MPE limit is 1 mW/cm².

B.1.4. VODAFONE MPE LIMITS

Normative document:

- 1999/519/EC Council Recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)

Reference levels:

The table below is excerpted from Table 2 of 1999/519/EC, titled "Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)":

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Exposure category	Frequency range	E-field strength $(\frac{V}{m} \text{ rms})$	H-field strength $(\frac{A}{m} \text{ rms})$	Equivalent plane wave power density $\frac{S_{eq}}{\left(\frac{W}{m^2}\right)}$	Equivalent plane wave power density S_{eq} $(\frac{mW}{cm^2})$
General public	400 MHz - 2 GHz	$1{,}37\cdot f(MHz)^{1/2}$	$0,00364 \cdot f(MHz)^{1/2}$	$\frac{f(MHz)}{200}$	$\frac{f(MHz)}{2000}$
General public	2 - 300 GHz	61	0,16	10	1

MPE limits:

- Main/Primary transmitter (F3307 Ericsson Mobile Broadband Module):

Frequency Band	Mode	Frequency Range (MHz)	Reference frequency (MHz)	$MPE \ limit (S_{Lim}) \\ (\frac{mW}{cm^2})$
GSM 850	GSM/GPRS	824,2 - 848,8	824,20	0,4121
G5W 650	EDGE	824,2 - 848,8	824,20	0,4121
FDD V	WCDMA/HSDPA	826,4 - 846,6	826,40	0,4132
TDD V	HSUPA	826,4 - 846,6	826,40	0,4132
E-GSM 900	GSM/GPRS	880,2 - 914,8	880,20	0,4401
E-GSWI 900	EDGE	880,2 - 914,8	880,20	0,4401
DCS 1800	GSM/GPRS	1710,2 - 1784,8	1710,20	0,8551
DCS 1800	EDGE	1710,2 - 1784,8	1710,20	0,8551
PCS 1900	GSM/GPRS	1850,2 - 1909,8	1850,20	0,9251
FCS 1900	EDGE	1850,2 - 1909,8	1850,20	0,9251
EDD II	WCDMA/HSDPA	1852,4 - 1907,6	1852,40	0,9262
FDD II	HSUPA	1852,4 - 1907,6	1852,40	0,9262

- Additional/Secondary transmitters: All the transmission frequencies for WLAN and Bluetooth modules are above 2 GHz, so that the MPE limit is 1 mW/cm².

B.2. RF EXPOSURE ASSESSMENT – INDIVIDUAL TRANSMITTERS

B.2.1. INTRODUCTION

Calculations to predict power density levels in the far-field of the antenna are made by use of the following equation:

$$S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

where: $S = power density (in appropriate units, e.g. <math>mW/cm^2$)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

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B.2.2. RF EXPOSURE ASSESSMENT FOR F3307 ERICSSON MOBILE BROADBAND MODULE INSTALLED IN GENERIC HOST PLATFORMS

FCC / IC REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S _{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	MPE limit (S _{Lim}) (mW/cm²)	$\begin{aligned} & \text{COMPLIANCE} \\ & (S_{eq} < S_{Lim}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
GSM 850	GSM/GPRS	824,2 - 848,8	1044,58	20,00	0,2078	0,5495	COMPLIANT
G5W 650	EDGE	824,2 - 848,8	1044,58	20,00	0,2078	0,5495	COMPLIANT
FDD V	WCDMA/HSDPA	826,4 - 846,6	1218,99	20,00	0,2425	0,5509	COMPLIANT
ע טטר	HSUPA	826,4 - 846,6	1169,50	20,00	0,2327	0,5509	COMPLIANT
PCS 1900	GSM/GPRS	1850,2 - 1909,8	499,97	20,00	0,0995	1,0000	COMPLIANT
1 CS 1900	EDGE	1850,2 - 1909,8	497,67	20,00	0,0990	1,0000	COMPLIANT
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	1258,93	20,00	0,2505	1,0000	COMPLIANT
I DD II	HSUPA	1852,4 - 1907,6	1318,26	20,00	0,2623	1,0000	COMPLIANT

EUROPEAN UNION REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{mW}{cm^2}\right)$	MPE limit (S _{Lim}) (mW/cm²)	$\begin{aligned} & \text{COMPLIANCE} \\ & (S_{eq} < S_{Lim}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
E-GSM 900	GSM/GPRS	880,2 - 914,8	847,11	20,00	0,1685	0,4401	COMPLIANT
E-GSWI 900	EDGE	880,2 - 914,8	287,04	20,00	0,0571	0,4401	COMPLIANT
DCS 1800	GSM/GPRS	1710,2 - 1784,8	465,52	20,00	0,0926	0,8551	COMPLIANT
DCS 1800	EDGE	1710,2 - 1784,8	250,00	20,00	0,0497	0,8551	COMPLIANT

AUSTRALIA REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S _{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	MPE limit (S _{Lim}) (mW/cm²)	$\begin{aligned} & \textbf{COMPLIANCE} \\ & (S_{eq} < S_{Lim}) \\ & (\frac{mW}{cm^2}) \end{aligned}$
FDD V	WCDMA/HSDPA	826,4 - 846,6	1218,99	20,00	0,2425	0,4132	COMPLIANT
TDD V	HSUPA	826,4 - 846,6	1169,50	20,00	0,2327	0,4132	COMPLIANT
E-GSM 900	GSM/GPRS	880,2 - 914,8	847,11	20,00	0,1685	0,4401	COMPLIANT
E-G5W 700	EDGE	880,2 - 914,8	287,04	20,00	0,0571	0,4401	COMPLIANT
DCS 1800	GSM/GPRS	1710,2 - 1784,8	465,52	20,00	0,0926	0,8551	COMPLIANT
DC3 1800	EDGE	1710,2 - 1784,8	250,00	20,00	0,0497	0,8551	COMPLIANT

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VODAFONE REQUIREMENTS

Frequency Band	Mode	Frequency Range (MHz)	EIRP (mW)	Evaluation distance (R) (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	$MPE \ limit (S_{Lim}) (\frac{mW}{cm^2})$	$\begin{aligned} & \text{COMPLIANCE} \\ & (S_{eq} < S_{\text{Lim}}) \\ & (\frac{\text{mW}}{\text{cm}^2}) \end{aligned}$
GSM 850	GSM/GPRS	824,2 - 848,8	1044,58	20	0,2078	0,4121	COMPLIANT
G5W 650	EDGE	824,2 - 848,8	1044,58	20	0,2078	0,4121	COMPLIANT
FDD V	WCDMA/HSDPA	826,4 - 846,6	1218,99	20	0,2425	0,4132	COMPLIANT
TDD V	HSUPA	826,4 - 846,6	1169,50	20	0,2327	0,4132	COMPLIANT
E-GSM 900	GSM/GPRS	880,2 - 914,8	847,11	20	0,1685	0,4401	COMPLIANT
E-USIVI 900	EDGE	880,2 - 914,8	287,04	20	0,0571	0,4401	COMPLIANT
DCS 1800	GSM/GPRS	1710,2 - 1784,8	465,52	20	0,0926	0,8551	COMPLIANT
DCS 1800	EDGE	1710,2 - 1784,8	250,00	20	0,0497	0,8551	COMPLIANT
PCS 1900	GSM/GPRS	1850,2 - 1909,8	499,97	20	0,0995	0,9251	COMPLIANT
FCS 1900	EDGE	1850,2 - 1909,8	497,67	20	0,0990	0,9251	COMPLIANT
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	1258,93	20	0,2505	0,9262	COMPLIANT
LDD II	HSUPA	1852,4 - 1907,6	1318,26	20	0,2623	0,9262	COMPLIANT

B.2.3. RF EXPOSURE ASSESSMENT FOR SECONDARY TRANSMITTERS INSTALLED IN GENERIC HOST PLATFORMS

Model name	FCC ID	EIRP (mW)	Evaluation distance (cm)	Power Density (S_{eq}) $S = \frac{P \cdot G}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$ $\left(\frac{\mathbf{mW}}{\mathbf{cm}^2}\right)$	$MPE \ limit \\ (S_{Lim}) \\ (\frac{mW}{cm^2})$	$\begin{aligned} & COMPLIANCE \\ & (S_{eq} < S_{Lim}) \end{aligned}$
Scenario 1	Bluetooth	76,43	20,00	0,0152	1,0000	COMPLIANT
Scenario 2	WLAN	2000,00	20,00	0,3979	1,0000	COMPLIANT
Scenario 3	WLAN	2000,00	20,00	0,3979	1,0000	COMPLIANT
Scenario 3	Bluetooth	76,43	20,00	0,0152	1,0000	COMPLIANT
Scenario 4	WiMAX	2000,00	20,00	0,3979	1,0000	COMPLIANT
Scenario 5	WiMAX	2000,00	20,00	0,3979	1,0000	COMPLIANT
Scenario 5	Bluetooth	76,43	20,00	0,0152	1,0000	COMPLIANT
Camaria	WLAN	2000.00	20.00	0.2070	1,0000	COMPLIANT
Scenario 6	WiMAX	2000,00	20,00	0,3979	1,0000	COMPLIANT
	WLAN	2000,00	20.00	0,3979	1,0000	COMPLIANT
Scenario 7	WiMAX	2000,00	20,00	0,3979	1,0000	COMPLIANT
	Bluetooth	76,43	20,00	0,0152	1,0000	COMPLIANT

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B.3. RF EXPOSURE ASSESSMENT – COLLOCATION CONSIDERATIONS

B.3.1. INTRODUCTION

In situations where simultaneous exposure to fields of different equipment and frequencies occurs, the possibility that these exposures will be additive in their effects must be considered. Calculations based on this additivity are performed by the sum of relative exposure for each equipment according to the following compliance criteria:

$$\sum_{1}^{N} \frac{S_{eqn}}{S_{Limn}} = \frac{S_{eq1}}{S_{Lim1}} + \frac{S_{eq2}}{S_{Lim2}} + \dots + \frac{S_{eqN}}{S_{LimN}} \le 1$$

where:

 S_{eq} is the power density of the electromagnetic field caused, at a given distance (evaluation distance), by a specific equipment transmitting at a defined frequency.

 S_{Lim} is the MPE limit for the evaluated transmission frequency.

B.3.2. FCC / IC REQUIREMENTS

RELATIVE EXPOSURE FOR F3307 ERICSSON BROADBAND MODULE

Frequency Band	Mode	Frequency Range (MHz)	$S_{ m eq}$	S_{Lim}	$\frac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$
GSM 850	GSM/GPRS	824,2 - 848,8	0,2078	0,5495	0,3782
USIVI 630	EDGE	824,2 - 848,8	0,2078	0,5495	0,3782
FDD V	WCDMA/HSDPA	826,4 - 846,6	0,2425	0,5509	0,4402
TDD V	HSUPA	826,4 - 846,6	0,2327	0,5509	0,4223
PCS 1900	GSM/GPRS	1850,2 - 1909,8	0,0995	1,0000	0,0995
FCS 1900	EDGE	1850,2 - 1909,8	0,0990	1,0000	0,0990
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	0,2505	1,0000	0,2505
LDD II	HSUPA	1852,4 - 1907,6	0,2623	1,0000	0,2623

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

SCENARIO	Type of transmitter	$S_{ m eq}$	$S_{ m Lim}$	$rac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$
Scenario 1	Bluetooth	0,0152	1,0000	0,0152
Scenario 2	WLAN	0,3979	1,0000	0,3979
Scenario 3	WLAN	0,3979	1,0000	0,3979
Scellario 3	Bluetooth	0,0152	1,0000	0,0152
Scenario 4	WiMAX	0,3979	1,0000	0,3979
Sagnaria 5	WiMAX	0,3979	1,0000	0,3979
Scenario 5	Bluetooth	0,0152	1,0000	0,0152

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Scenario 6	WLAN	0,3979	1,0000	0,3979	
Scenario o	WiMAX	0,3979	1,0000	0,3979	
	WLAN	0,3979	1,0000	0,3979	
Scenario 7	WiMAX	0,3979	1,0000	0,3979	
	Bluetooth	0,0152	1,0000	0,0152	

SIMULTANEOUS EXPOSURE

SCENARIO	Equipment		$\frac{\mathbf{S}_{eq}}{\mathbf{S}_{Lim}}$	$\begin{split} \frac{S_{Pri}}{S_{Lim_Pri}} + \\ \sum \frac{S_{Sec}}{S_{Lim_Sec}} \end{split}$	$\frac{S_{Pri}}{S_{Lim_Pri}} + \\ \sum \frac{S_{Sec}}{S_{Lim_Sec}} < 1$
Scenario 1	Primary transmitter	Ericsson F3307	0,4402	0,4554	COMPLIANT
Scenario 1	Secundary transmitter	Bluetooth	0,0152	0,1551	COMI EIANI
Scenario 2	Primary transmitter	Ericsson F3307	0,4402	0,8381	COMPLIANT
Scenario 2	Secundary transmitter	WLAN	0,3979	0,6361	COMILIANI
	Primary transmitter	Ericsson F3307	0,4402		
Scenario 3	Secundary transmitter	WLAN	0,3979	0,8533	COMPLIANT
	Secundary transmitter	Bluetooth	0,0152		
Scenario 4	Primary transmitter	Ericsson F3307	0,4402	0,8381	COMPLIANT
Scenario 4	Secundary transmitter	WiMAX	0,3979	0,8381	COMPLIANT
	Primary transmitter	Ericsson F3307	0,4402		
Scenario 5	Secundary transmitter	WiMAX	0,3979	0,8533	COMPLIANT
	Secundary transmitter	Bluetooth	0,0152]	
	Primary transmitter	Ericsson F3307	0,4402		
Scenario 6	Secundary transmitter	WLAN	0,3979	0,8381	COMPLIANT
	Secundary transmitter	WiMAX	0,3979		
	Primary transmitter	Ericsson F3307	0,4402		
Scenario 7	Secundary transmitter	WLAN	0.2070	0.0522	COMPLIANT
	Secundary transmitter	WiMAX	0,3979	0,8533	COMPLIANT
	Secundary transmitter	Bluetooth	0,0152		

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B.3.3. EUROPEAN UNION REQUIREMENTS

RELATIVE EXPOSURE FOR F3307 ERICSSON BROADBAND MODULE

Frequency Band	Mode	Frequency Range (MHz)	$S_{ m eq}$	S_{Lim}	$\frac{S_{eq}}{S_{Lim}}$
E-GSM 900	GSM/GPRS	880,2 - 914,8	0,1685	0,4401	0,3829
	EDGE	880,2 - 914,8	0,0571	0,4401	0,1298
DCS 1800	GSM/GPRS	1710,2 - 1784,8	0,0926	0,8551	0,1083
	EDGE	1710,2 - 1784,8	0,0497	0,8551	0,0582

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

SCENARIO	Type of transmitter	S_{eq}	S_{Lim}	$rac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$	
Scenario 1	Bluetooth	0,0152	1,0000	0,0152	
Scenario 2	WLAN	0,3979	1,0000	0,3979	
Scenario 3	WLAN	0,3979	1,0000	0,3979	
Scenario 5	Bluetooth	0,0152	1,0000	0,0152	
Scenario 4	WiMAX	0,3979	1,0000	0,3979	
Scenario 5	WiMAX	0,3979	1,0000	0,3979	
Scenario 3	Bluetooth	0,0152	1,0000	0,0152	
Scenario 6	WLAN	0,3979	1,0000	0.2070	
Scenario o	WiMAX	0,3979	1,0000	0,3979	
	WLAN	0.2070	1 0000	0.2070	
Scenario 7	WiMAX	0,3979	1,0000	0,3979	
	Bluetooth	0,0152	1,0000	0,0152	

SIMULTANEOUS EXPOSURE

SCENARIO			$\frac{S_{eq}}{S_{Lim}}$	$\begin{aligned} & \frac{S_{Pri}}{S_{Lim_Pri}} + \\ & \frac{S_{Sec}}{S_{Lim_Sec}} \end{aligned}$	$\frac{S_{p_{ri}}}{S_{Lim_Pri}} + \\ \sum \frac{S_{Sec}}{S_{Lim_Sec}} < 1$	
Scenario 1	Primary transmitter	Ericsson F3307	0,3829	0,3981	COMPLIANT	
Scenario 1	Secundary transmitter	Bluetooth	0,0152	0,3901	COMI LIANT	
Saanaria 2	Primary transmitter	Ericsson F3307	0,3829	0,7808	COMPLIANT	
Scenario 2	Secundary transmitter	WLAN	0,3979	0,7808		

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	Primary transmitter	Ericsson F3307	0,3829			
Scenario 3	Secundary transmitter	WLAN	0,3979	0,7960	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			
Scenario 4	Primary transmitter	Ericsson F3307	0,3829	0,7808	COMPLIANT	
Scenario 4	Secundary transmitter	WiMAX	0,3979	0,7808	COMILIANI	
	Primary transmitter	Ericsson F3307	0,3829			
Scenario 5	Secundary transmitter	WiMAX	0,3979	0,7960	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			
	Primary transmitter	Ericsson F3307	0,3829			
Scenario 6	Secundary transmitter	WLAN	0,3979	0,7808	COMPLIANT	
	Secundary transmitter	WiMAX	0,3919			
	Primary transmitter	Ericsson F3307	0,3829			
Scenario 7	Secundary transmitter	WLAN	0,3979	0.70(0	COMPLIANT	
	Secundary transmitter	WiMAX	0,3979	0,7960		
	Secundary transmitter	Bluetooth	0,0152			

B.3.4. AUSTRALIA REQUIREMENTS

RELATIVE EXPOSURE FOR F3307 ERICSSON BROADBAND MODULE

Manufacturer	Model name	Frequency range (MHz)	S_{eq}	S_{Lim}	$\frac{S_{eq}}{S_{Lim}}$
FDD V	WCDMA/HSDPA	826,4 - 846,6	0,2425	0,4132	0,5869
FDD V	HSUPA	826,4 - 846,6	0,2327	0,4132	0,5631
E-GSM 900	GSM/GPRS	880,2 - 914,8	0,1685	0,4401	0,3829
E-GSM 900	EDGE	880,2 - 914,8	0,0571	0,4401	0,1298
DCS 1800	GSM/GPRS	1710,2 - 1784,8	0,0926	0,8551	0,1083
DCS 1800	EDGE	1710,2 - 1784,8	0,0497	0,8551	0,0582

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

SCENARIO	Type of transmitter	$S_{ m eq}$	\mathbf{S}_{Lim}	$rac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$
Scenario 1	Bluetooth	0,0152	1,0000	0,0152
Scenario 2	WLAN	0,3979	1,0000	0,3979
Scenario 3	WLAN	0,3979	1,0000	0,3979
Scenario 3	Bluetooth	0,0152	1,0000	0,0152
Scenario 4	WiMAX	0,3979	1,0000	0,3979

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Scenario 5	WiMAX	0,3979	1,0000	0,3979	
Scenario 3	Bluetooth	0,0152	1,0000	0,0152	
Scenario 6	WLAN	0,3979	1,0000	0,3979	
Scenario 6	WiMAX	0,3979	1,0000	0,3979	
	WLAN	0,3979	1,0000	0,3979	
Scenario 7	WiMAX	0,3979	1,0000	0,3979	
	Bluetooth	0,0152	1,0000	0,0152	

SIMULTANEOUS EXPOSURE

			Maximum	$\frac{S_{Pri}}{S} +$	$\frac{S_{Pri}}{S} +$	
SCENARIO	Equipment		$\frac{S_{eq}}{S_{Lim}}$	$\frac{S_{\text{Lim_Pri}}}{\sum \frac{S_{\text{Sec}}}{S_{\text{Lim_Sec}}}}$	$\frac{\overline{S_{\text{Lim_Pri}}}}{\overline{S_{\text{Lim_Pri}}}} < 1$ $\sum \frac{S_{\text{Sec}}}{\overline{S_{\text{Lim_Sec}}}}$	
Scenario 1	Primary transmitter	Ericsson F3307	0,5869	0,6021123	COMPLIANT	
Scenario 1	Secundary transmitter	Bluetooth	0,0152	0,0021123	COMI LIAIVI	
Scenario 2	Primary transmitter	Ericsson F3307	0,5869	0,9847951	COMPLIANT	
Scenario 2	Secundary transmitter	WLAN	0,3979	0,9047931	COMILIANI	
	Primary transmitter	Ericsson F3307	0,5869			
Scenario 3	Secundary transmitter	WLAN	0,3979	0,9999997	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			
Scenario 4	Primary transmitter	Ericsson F3307	0,5869	0,9847951	COMPLIANT	
Scenario 4	Secundary transmitter	WiMAX	0,3979	0,704/731	COMPLIANT	
	Primary transmitter	Ericsson F3307	0,5869			
Scenario 5	Secundary transmitter	WiMAX	0,3979	0,9999997	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			
	Primary transmitter	Ericsson F3307	0,5869			
Scenario 6	Secundary transmitter	WLAN	0,3979	0,9847951	COMPLIANT	
	Secundary transmitter	WiMAX	0,3979			
	Primary transmitter	Ericsson F3307	0,5869			
Scenario 7	Secundary transmitter	WLAN	0.2070	0.0000007	COMPLIANT	
Scenario /	Secundary transmitter	WiMAX	0,3979	0,9999997	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			

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B.3.5. VODAFONE REQUIREMENTS

RELATIVE EXPOSURE FOR F3307 ERICSSON BROADBAND MODULE

Manufacturer	Model name	Frequency range (MHz)	$S_{ m eq}$	S_{Lim}	$\frac{S_{eq}}{S_{Lim}}$
GSM 850	GSM/GPRS	824,2 - 848,8	0,2078	0,4121	0,5043
USIVI 630	EDGE	824,2 - 848,8	0,2078	0,4121	0,5043
FDD V	WCDMA/HSDPA	826,4 - 846,6	0,2425	0,4132	0,5869
	HSUPA	826,4 - 846,6	0,2327	0,4132	0,5631
E-GSM 900	GSM/GPRS	880,2 - 914,8	0,1685	0,4401	0,3829
	EDGE	880,2 - 914,8	0,0571	0,4401	0,1298
DCS 1800	GSM/GPRS	1710,2 - 1784,8	0,0926	0,8551	0,1083
	EDGE	1710,2 - 1784,8	0,0497	0,8551	0,0582
PCS 1900	GSM/GPRS	1850,2 - 1909,8	0,0995	0,9251	0,1075
	EDGE	1850,2 - 1909,8	0,0990	0,9251	0,1070
FDD II	WCDMA/HSDPA	1852,4 - 1907,6	0,2505	0,9262	0,2704
լ ընն II	HSUPA	1852,4 - 1907,6	0,2623	0,9262	0,2832

RELATIVE EXPOSURE FOR SECONDARY TRANSMITTERS

SCENARIO	Type of transmitter	$\mathbf{S}_{\mathbf{eq}}$	S_{Lim}	$rac{\mathbf{S}_{\mathrm{eq}}}{\mathbf{S}_{\mathrm{Lim}}}$	
Scenario 1	Bluetooth	0,0152	1,0000	0,0152	
Scenario 2	WLAN	0,3979	1,0000	0,3979	
Scenario 3	WLAN	0,3979	1,0000	0,3979	
Scenario 3	Bluetooth	0,0152	1,0000	0,0152	
Scenario 4	WiMAX	0,3979	1,0000	0,3979	
Scenario 5	WiMAX	0,3979	1,0000	0,3979	
	Bluetooth	0,0152	1,0000	0,0152	
Scenario 6	WLAN	0,3979	1,0000	0,3979	
Scenario 6	WiMAX	0,3979	1,0000	0,3777	
Scenario 7	WLAN	0,3979	1,0000	0,3979	
	WiMAX	1,0000		0,3979	
	Bluetooth	0,0152	1,0000	0,0152	

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SIMULTANEOUS EXPOSURE

SCENARIO	Equipment		$\frac{\mathbf{Maximum}}{\frac{\mathbf{S_{eq}}}{\mathbf{S_{Lim}}}}$	$\begin{split} & \frac{S_{Pri}}{S_{Lim_Pri}} + \\ & \frac{S_{Sec}}{S_{Lim_Sec}} \end{split}$	$\frac{S_{Pri}}{S_{Lim_Pri}} + \\ \sum \frac{S_{Sec}}{S_{Lim_Sec}} < 1$	
Scenario 1	Primary transmitter	Ericsson F3307	0,5869	0,6021123	COMPLIANT	
Scenario 1	Secundary transmitter	Bluetooth	0,0152	0,0021123	COM EMIN	
Scenario 2	Primary transmitter	Ericsson F3307	0,5869	0,9847951	COMPLIANT	
Scenario 2	Secundary transmitter	WLAN	0,3979	0,7077731	COMI LIANT	
	Primary transmitter	Ericsson F3307	0,5869			
Scenario 3	Secundary transmitter	WLAN	0,3979	0,9999997	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			
Scenario 4	Primary transmitter	Ericsson F3307	0,5869	0,9847951 CO	COMPLIANT	
Scenario 4	Secundary transmitter	WiMAX	0,3979		COMPLIANT	
	Primary transmitter	Ericsson F3307	0,5869			
Scenario 5	Secundary transmitter	WiMAX	0,3979	0,9999997	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			
	Primary transmitter	Ericsson F3307	0,5869		COMPLIANT	
Scenario 6	Secundary transmitter	WLAN	0,3979	0,9847951		
	Secundary transmitter	WiMAX	0,3979			
Scenario /	Primary transmitter	Ericsson F3307	0,5869			
	Secundary transmitter	WLAN	0,3979 0,999999		COMPLIANT	
	Secundary transmitter	WiMAX	0,39/9	0,9999997	COMPLIANT	
	Secundary transmitter	Bluetooth	0,0152			

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